WHAT IS CLAIMED IS:

1. A method of operating a matched filter of a point access memory (PAM) with variable lengths, the steps of method comprising:

sequentially receiving a plurality of sample data from a received signal; and

5   shifting a storage position of a PN sequence according to a storage position of the sample data.

2. The method of claim 1, wherein the sample data are stored according to their sequence without shifting their storage positions.

3. A method of operating a matched filter of a point access memory (PAM) with

10   variable lengths, suitable for a data storage region to store a received signal and for the matched filter to store a PN sequence in a storage region for reference values, wherein the received signal comprises a plurality of sample data, the method comprising:

storing each sample data in the data storage region;

15   shifting the PN sequence in the storage region for reference values to a corresponding position when all the sample data is stored in the data storage region; and

performing a matching operation to match all the stored sample data and the PN sequence that are positioned in the corresponding position.